ENTERED

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/083,424

DATE: 08/08/2002
TIME: 10:42:27

Input Set : A:\5294-000006 sequence listing.txt
Output Set: N:\CRF3\08082002\J083424.raw

```
      4 <110> APPLICANT: Avicore Biotechnology Institute Inc.
      6 <120> TITLE OF INVENTION: Recombinant ScFv Antibodies Specific to Eimeria spp.
Responsible
      7       for Coccidiosis
      9 <130> FILE REFERENCE: Avicore-USA-1
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/083,424
C--> 11 <141> CURRENT FILING DATE: 2002-02-19
     11 <150> PRIOR APPLICATION NUMBER: KR 2001-52934
     12 <151> PRIOR FILING DATE: 2001-08-30
     14 <160> NUMBER OF SEQ ID NOS: 40
     16 <170> SOFTWARE: KopatentIn 1.71
     18 <210> SEQ ID NO: 1
     19 <211> LENGTH: 21
     20 <212> TYPE: DNA
     21 <213> ORGANISM: Artificial Sequence
     23 <220> FEATURE:
     24 <223> OTHER INFORMATION: forward primer for PCR amplification of heavy chain variable
     25       region
     28 <400> SEQUENCE: 1
     29 ggaggagacg atgacttcgg t                                                    21
     32 <210> SEQ ID NO: 2
     33 <211> LENGTH: 21
     34 <212> TYPE: DNA
     35 <213> ORGANISM: Artificial Sequence
     37 <220> FEATURE:
     38 <223> OTHER INFORMATION: reverse primer for PCR amplification of heavy chain variable
     39       region
     42 <400> SEQUENCE: 2
     43 gccgtgacgt tggacgagtc c                                                    21
     46 <210> SEQ ID NO: 3
     47 <211> LENGTH: 21
     48 <212> TYPE: DNA
     49 <213> ORGANISM: Artificial Sequence
     51 <220> FEATURE:
     52 <223> OTHER INFORMATION: forward primer for PCR amplification of light chain variable
     53       region
     56 <400> SEQUENCE: 3
     57 taggacggtc agggttgtcc c                                                    21
     60 <210> SEQ ID NO: 4
     61 <211> LENGTH: 21
     62 <212> TYPE: DNA
     63 <213> ORGANISM: Artificial Sequence
     65 <220> FEATURE:
     66 <223> OTHER INFORMATION: reverse primer for PCR amplification of light chain variable
```

RAW SEQUENCE LISTING DATE: 08/08/2002
PATENT APPLICATION: US/10/083,424 TIME: 10:42:27

Input Set : A:\5294-000006 sequence listing.txt
Output Set: N:\CRF3\08082002\J083424.raw

region
<400> SEQUENCE: 4
gcgctgactc agccgtcctc g 21
<210> SEQ ID NO: 5
<211> LENGTH: 51
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: reverse primer for PCR amplification of heavy chain variable region
<400> SEQUENCE: 5
ggcggaggtg gctctggcgg tggcggatcg gccgtgacgt tggacgagtc c 51
<210> SEQ ID NO: 6
<211> LENGTH: 21
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: reverse primer for PCR amplification of heavy chain variable region
<400> SEQUENCE: 6
ggaggagacg atgacttcgg t 21
<210> SEQ ID NO: 7
<211> LENGTH: 21
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: reverse primer for PCR amplification of light chain variable region
<400> SEQUENCE: 7
gcgctgactc agccgtcctc g 21
<210> SEQ ID NO: 8
<211> LENGTH: 51
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: forward primer for PCR amplification of light chain variable region
<400> SEQUENCE: 8
agagccacct ccgcctgaac cgcctccacc taggacggtc agggttgtcc c 51
<210> SEQ ID NO: 9
<211> LENGTH: 21
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: reverse primer for PCR amplification of heavy chain variable region
<400> SEQUENCE: 9
gccgtgacgt tggacgagtc c 21
<210> SEQ ID NO: 10

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/083,424

DATE: 08/08/2002
TIME: 10:42:27

Input Set : A:\5294-000006 sequence listing.txt
Output Set: N:\CRF3\08082002\J083424.raw

<211> LENGTH: 51
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: forward primer for PCR amplification of heavy chain variable region
<400> SEQUENCE: 10
agagccacct ccgcctgaac cgcctccacc ggaggagacg atgacttcgg t 51
<210> SEQ ID NO: 11
<211> LENGTH: 51
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: reverse primer for PCR amplification of light chain variable region
<400> SEQUENCE: 11
ggcggaggtg gctctggcgg tggcggatcg gcgctgactc agccgtcctc g 51
<210> SEQ ID NO: 12
<211> LENGTH: 21
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: forward primer for PCR amplification of light chain variable region
<400> SEQUENCE: 12
taggacggtc agggttgtcc c 21
<210> SEQ ID NO: 13
<211> LENGTH: 55
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: reverse primer for PCR amplification of scFv
<400> SEQUENCE: 13
gtcctcgcaa ctgcggccca gccgggccat ggccgcgctg actcagccgt cctcg 55
<210> SEQ ID NO: 14
<211> LENGTH: 39
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: forward primer for PCR amplification of scFv
<400> SEQUENCE: 14
ggccaccttt gcggccgcgg aggagacgat gacttcggt 39
<210> SEQ ID NO: 15
<211> LENGTH: 55
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: reverse primer for PCR amplification of scFv
<400> SEQUENCE: 15

RAW SEQUENCE LISTING DATE: 08/08/2002
PATENT APPLICATION: US/10/083,424 TIME: 10:42:27

Input Set : A:\5294-000006 sequence listing.txt
Output Set: N:\CRF3\08082002\J083424.raw

```
222 gtcctcgcaa ctgcggccca gccgggccat ggccgccgtg acgttggacg agtcc                55
225 <210> SEQ ID NO: 16
226 <211> LENGTH: 39
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: forward primer for PCR amplification of scFv
234 <400> SEQUENCE: 16
235 ggccaccttt gcggccgcta ggacggtcag ggttgtccc                                  39
238 <210> SEQ ID NO: 17
239 <211> LENGTH: 369
240 <212> TYPE: DNA
241 <213> ORGANISM: chicken hybridoma cell line 2-1
243 <220> FEATURE:
244 <221> NAME/KEY: CDS
245 <222> LOCATION: (1)..(369)
247 <400> SEQUENCE: 17
248 gcc gtg acg ttg gac gag tcc ggg ggc ggc ctc cag acg ccc gga gga            48
249 Ala Val Thr Leu Asp Glu Ser Gly Gly Gly Leu Gln Thr Pro Gly Gly
250   1               5                  10                  15
252 gcg ctc agc ctc gtc tgc aag gcc tcc ggg ttc acc ttc agc agc cat            96
253 Ala Leu Ser Leu Val Cys Lys Ala Ser Gly Phe Thr Phe Ser Ser His
254              20                  25                  30
256 ggc atg atg tgg gtg cga cag acg ccc ggc aag ggg ctg gag tgg gtc           144
257 Gly Met Met Trp Val Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp Val
258          35                  40                  45
260 gcg ggt att agc aac act ggt act tac acg tac tac gcg ccg gcg gtg           192
261 Ala Gly Ile Ser Asn Thr Gly Thr Tyr Thr Tyr Tyr Ala Pro Ala Val
262      50                  55                  60
264 aag ggc cgt gcc acc atc tcg agg gac aac ggg cag agc aca gtg agg           240
265 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Gly Gln Ser Thr Val Arg
266  65                  70                  75                  80
268 ctg cag ctg aac aac ctc agg gct gag gac acc ggc acc tac tac tgc           288
269 Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr Tyr Tyr Cys
270                  85                  90                  95
272 gcc aaa ggt ggt gct tat tgt gct ggt tgt ggt ggt gac atc gac gca           336
273 Ala Lys Gly Gly Ala Tyr Cys Ala Gly Cys Gly Gly Asp Ile Asp Ala
274              100                 105                 110
276 tgg ggc cac ggg acc gaa gtc atc gtc tcc tcc                              369
277 Trp Gly His Gly Thr Glu Val Ile Val Ser Ser
278          115                 120
281 <210> SEQ ID NO: 18
282 <211> LENGTH: 123
283 <212> TYPE: PRT
284 <213> ORGANISM: chicken hybridoma cell line 2-1
286 <400> SEQUENCE: 18
287 Ala Val Thr Leu Asp Glu Ser Gly Gly Gly Leu Gln Thr Pro Gly Gly
288   1               5                  10                  15
290 Ala Leu Ser Leu Val Cys Lys Ala Ser Gly Phe Thr Phe Ser Ser His
```

RAW SEQUENCE LISTING DATE: 08/08/2002
PATENT APPLICATION: US/10/083,424 TIME: 10:42:27

Input Set : A:\5294-000006 sequence listing.txt
Output Set: N:\CRF3\08082002\J083424.raw

```
291              20                  25                  30
293 Gly Met Met Trp Val Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp Val
294          35                  40                  45
296 Ala Gly Ile Ser Asn Thr Gly Thr Tyr Thr Tyr Tyr Ala Pro Ala Val
297      50                  55                  60
299 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Gly Gln Ser Thr Val Arg
300  65                  70                  75                  80
302 Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr Tyr Tyr Cys
303                  85                  90                  95
305 Ala Lys Gly Gly Ala Tyr Cys Ala Gly Cys Gly Gly Asp Ile Asp Ala
306              100                 105                 110
308 Trp Gly His Gly Thr Glu Val Ile Val Ser Ser
309          115                 120
312 <210> SEQ ID NO: 19
313 <211> LENGTH: 372
314 <212> TYPE: DNA
315 <213> ORGANISM: chicken hybridoma cell line 5D11
317 <220> FEATURE:
318 <221> NAME/KEY: CDS
319 <222> LOCATION: (1)..(372)
321 <400> SEQUENCE: 19
322 gcc gtg acg ttg gac gag tcc ggg ggc ggc ctc cag acg ccc gga gga          48
323 Ala Val Thr Leu Asp Glu Ser Gly Gly Gly Leu Gln Thr Pro Gly Gly
324   1               5                  10                  15
326 gcg ctc agc ctc gtc tgc aag gcc tcc ggg ttc gac ttc agc agt tac          96
327 Ala Leu Ser Leu Val Cys Lys Ala Ser Gly Phe Asp Phe Ser Ser Tyr
328              20                  25                  30
330 gac atg att tgg gtg cga cag gcg ccc ggc aag ggg ctg gaa tac gtc         144
331 Asp Met Ile Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Tyr Val
332          35                  40                  45
334 gcg ggt att aga agt gat ggt agt agc ata tac tac ggg gcg gcg gtg         192
335 Ala Gly Ile Arg Ser Asp Gly Ser Ser Ile Tyr Tyr Gly Ala Ala Val
336      50                  55                  60
338 aag ggc cgt gcc acc atc tcg agg gac aac ggg cag agc act ctg agg         240
339 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Gly Gln Ser Thr Leu Arg
340  65                  70                  75                  80
342 ctg cag ctg aac aac ctc agg gct gag gac acc ggc acc tat tac tgc         288
343 Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr Tyr Tyr Cys
344                  85                  90                  95
346 gcc aaa agt tct tat ggt agt tgg aga ggt tct act ggt gac atc gac         336
347 Ala Lys Ser Ser Tyr Gly Ser Trp Arg Gly Ser Thr Gly Asp Ile Asp
348              100                 105                 110
350 gca tgg ggc cac ggg acc gaa gtc atc gtc tcc tcc                        372
351 Ala Trp Gly His Gly Thr Glu Val Ile Val Ser Ser
352          115                 120
355 <210> SEQ ID NO: 20
356 <211> LENGTH: 124
357 <212> TYPE: PRT
358 <213> ORGANISM: chicken hybridoma cell line 5D11
```

VERIFICATION SUMMARY DATE: 08/08/2002
PATENT APPLICATION: **US/10/083,424** TIME: 10:42:28

Input Set : **A:\5294-000006 sequence listing.txt**
Output Set: **N:\CRF3\08082002\J083424.raw**

L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date